

I was greatly interested, on one occasion, when trying to breed out the staphylinid beetle larva for determination, to find that the symphylids retaliated by eating holes into the beetle's thorax after he had assumed the quiescent pupal stage. Further investigations all indicate that though the symphylids are omnivorous feeders, they are weak creatures and poor fighters—hence feed principally upon tender plant tissue. They appear to favor mostly the tender tips of living roots.

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### Lice Affecting Poultry in Hawaii

BY J. F. ILLINGWORTH.

(Presented at the meeting of November 4, 1927)

I wish to record a number of cosmopolitan species of lice taken from poultry in the vicinity of Honolulu during 1926. This collection was made by Dr. Marie Faus, who was working with me on an investigation of pests of man and domestic animals.

As far as I know, only one of the nine species of Mallophaga that we found has been recorded as occurring in Hawaii.

The common hen louse, *Menopon gallinae* (Linn.) (= *M. pallidum* Nitzsch\*), a general parasite infesting poultry. Specimens were taken: ex turkey, Honolulu, Nov. 23, 1926; ex Guinea hen, Honolulu, Dec. 9, 1926; ex chicken, Waipio, Dec. 14, 1926; and ex chicken, Honolulu, Dec. 16, 1926.

The body louse of the hen, *Menopon stamineum* Nitzsch (= *M. biseriatum* Paiget\*), which also has a wide range of hosts. It occurs on chickens, turkeys, pigeons, and peacocks. Our specimens are from chickens, Honolulu, November 23 and Dec. 16, 1926.

The common louse of peafowl and Guinea hen, *Menopon phaeastomum* Nitzsch. This species was taken from Guinea hen in Honolulu, Dec. 9, 1926, and from pea fowl on the same date.

The large turkey louse, *Goniodes stilifer* Nitzsch, was taken on chickens at Waipio, Dec. 19, 1926. This species has been previously recorded in Hawaii by Van Dine (Hawaii Agric. Exp. Sta-

tion Annual Report, 1908, p. 36), and Swezey (Proc. Hawaiian Ent. Soc., vol. 5, p. 37, 1922).

The lesser chicken louse, *Goniocotes hologaster* Nitzsch, taken on both chickens and turkeys in Honolulu markets during November and December, 1926.

The large chicken louse, *Goniocotes gigas* Tasch., was taken on chickens at Waipio, December 14, 1926.

The slender louse of the turkey, *Lipeurus gallipavonis* Geoffroy (= *L. polytrapezius* Nitzsch \*), was taken on turkeys in Honolulu market, December 16, 1926.

The large *Lipeurus* of the hen, *Lipeurus heterographus* Nitzsch, was collected on chickens in Honolulu, November 23, 1926.

The variable hen louse, *Lipeurus caponis* (Linn.) (= *L. variabilis* Nitzsch), was taken on chickens in Honolulu, Dec. 16, 1926.

All of these species are illustrated by Professor Glenn W. Herrick, in his work on "Some external parasites of poultry," Cornell Agric. Exper. Station, Bull. 359, 1915.

The synonymy marked with a (\*) is from Essig, Insects of Western North America, pages 126-138, 1926.

### Insects Collected in the Pineapple Growing Section on the Island of Lanai, August, 1927

BY J. F. ILLINGWORTH.

(Presented at the meeting of November 4, 1927)

During three days in the vicinity of Lanai City I made as complete a collection of the insects as possible. I wish to present them here for record.

Class CRUSTACEA.

Family Oniscidae.

*Porcellio laevis* Latr. (sow bug or damp bug).

*Armadillo hawaiiensis* Dana (Spherillo) (pill bug).

Class ARACHNIDA.

Family Theridiidae.

*Latrodectes mactans* (hour-glass spider).

Class CHILOPODA (centipedes).

Family Geophilidae.

*Mecistocephalus maxillaris* (Gervais).